



Colorado Water Availability Task Force

IMW DEWS Mtg 2016

Taryn Finnessey

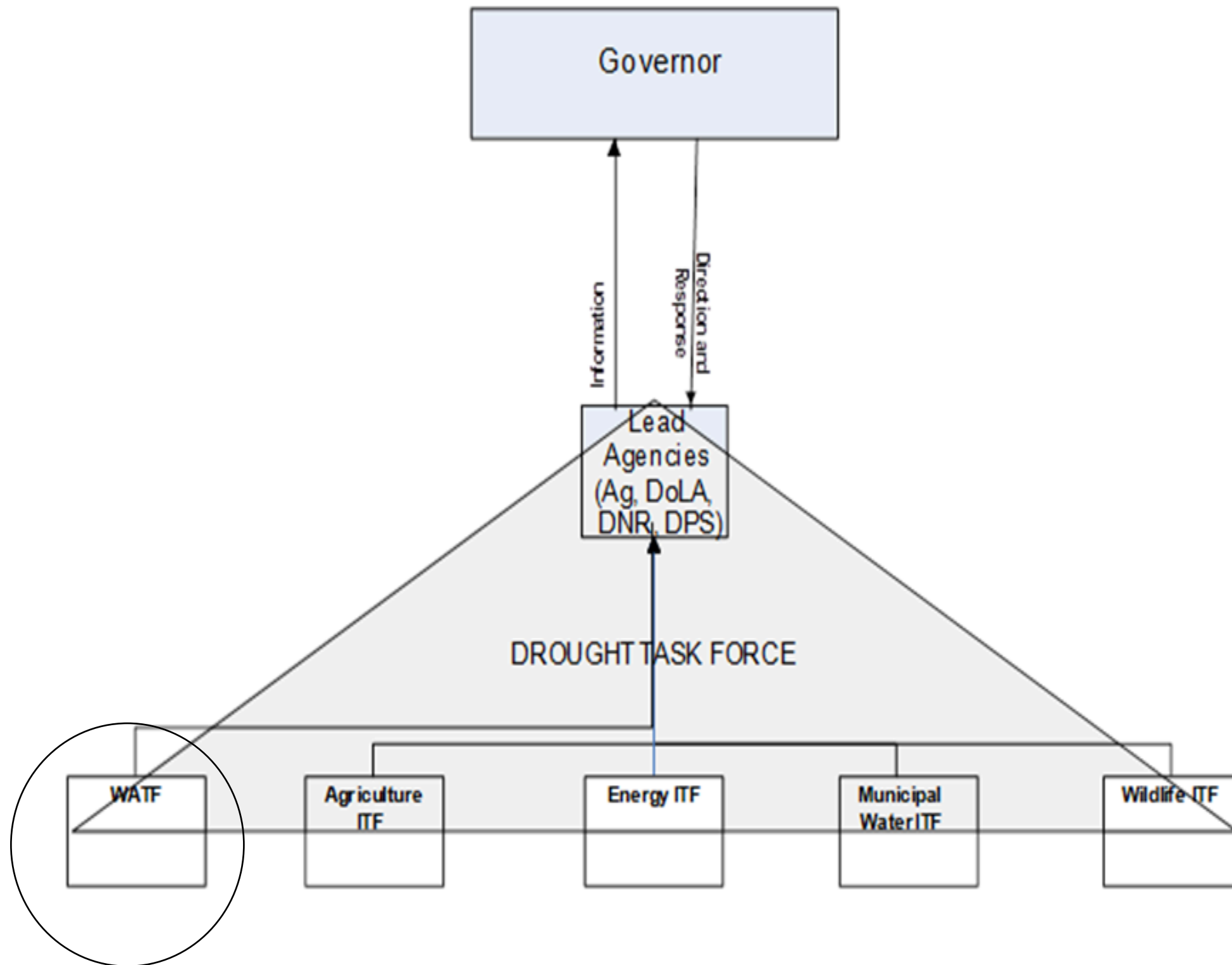
Climate Change Risk Management Specialist



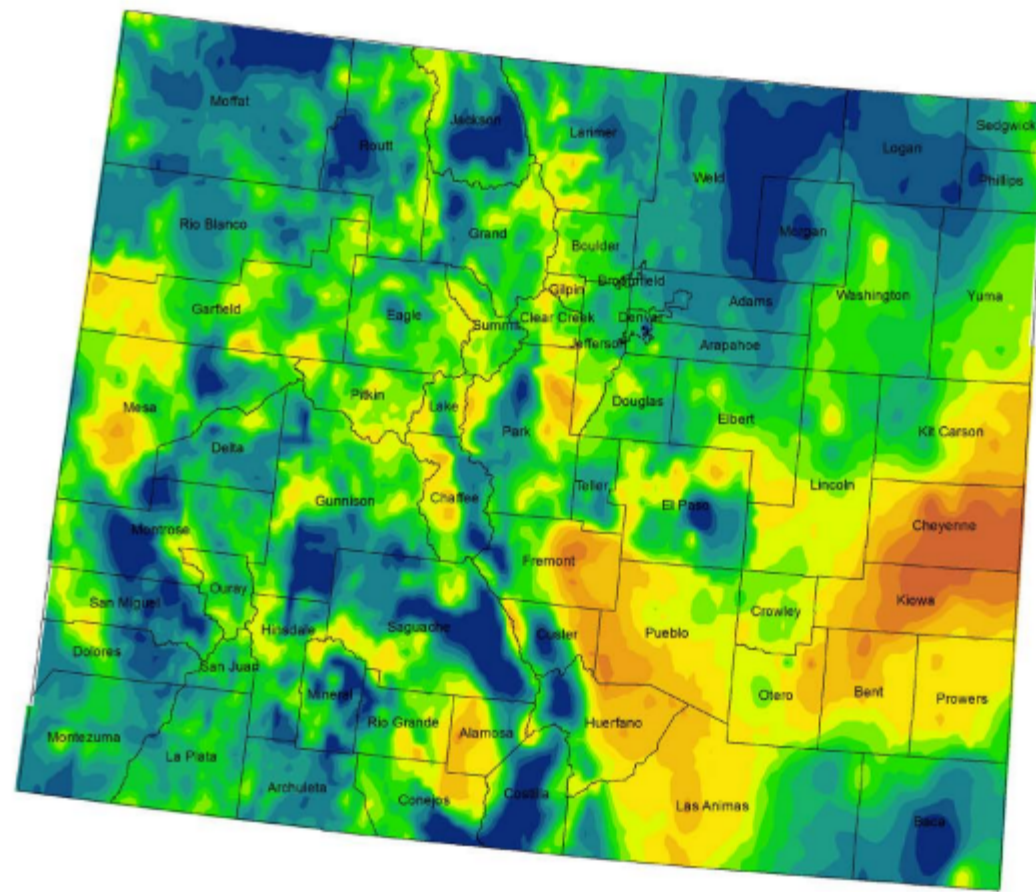
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Department of Natural Resources

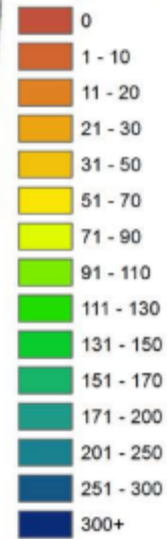
Current Response Framework



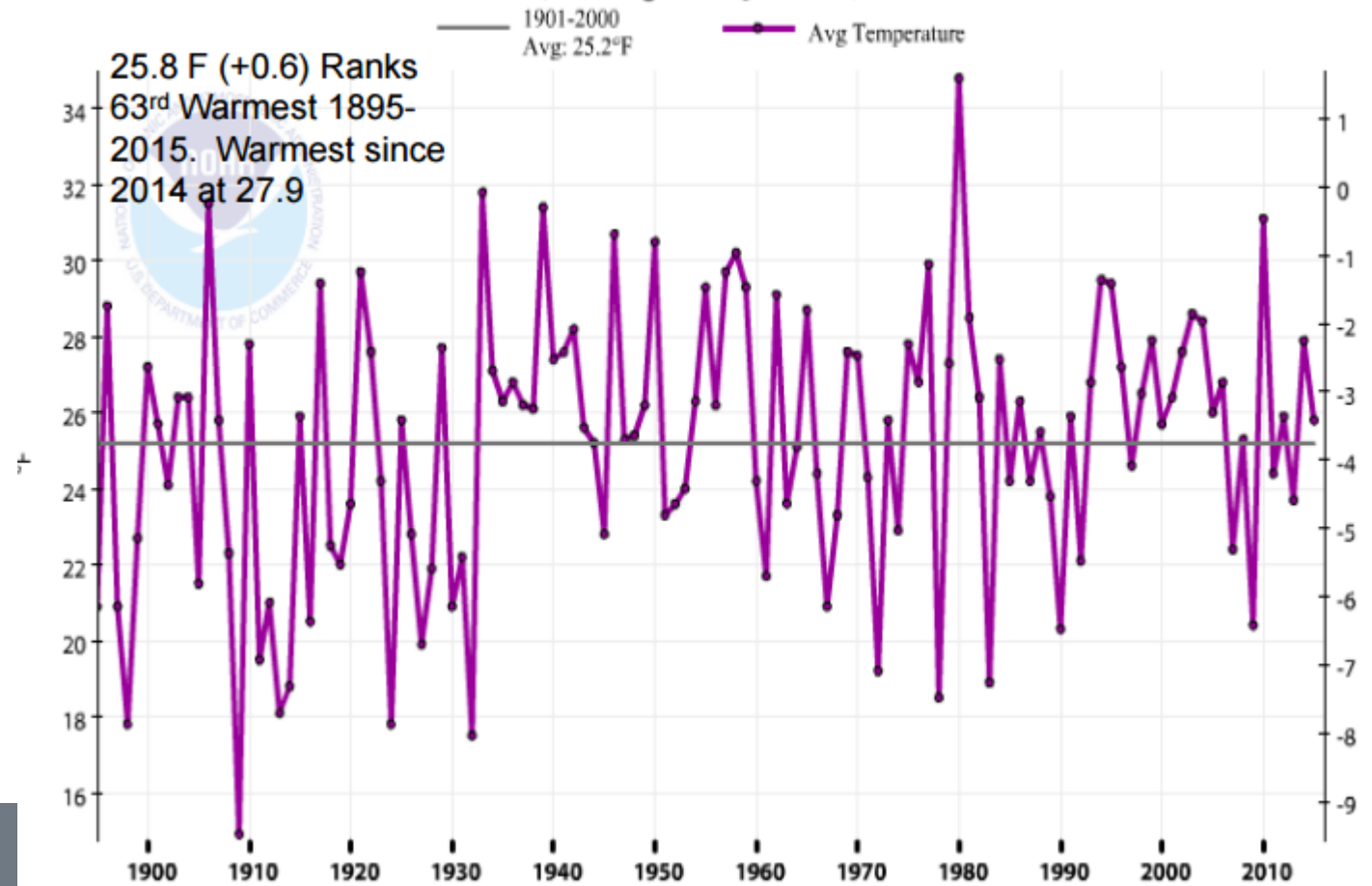
Colorado December 2015 Precipitation as a Percentage of Normal



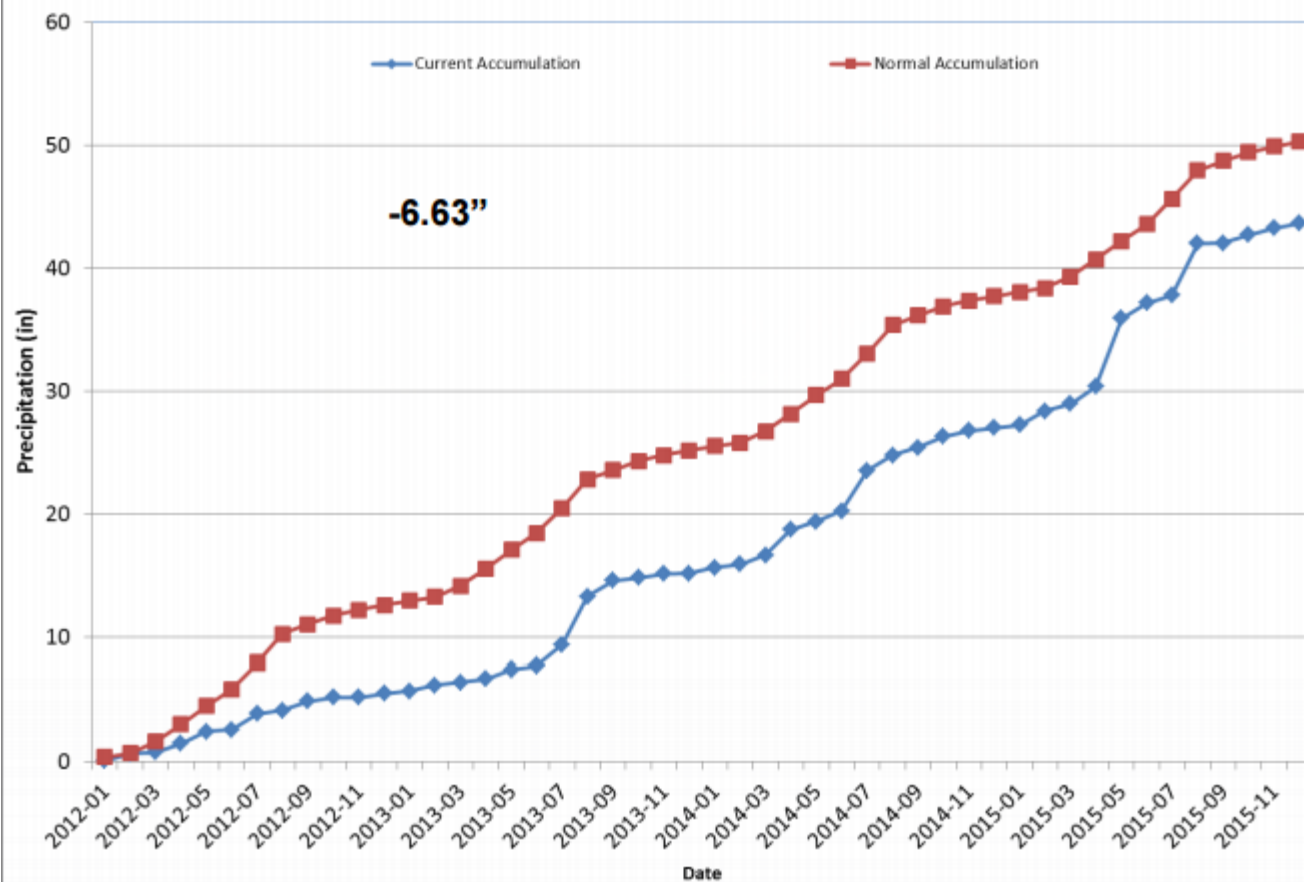
dec15_pn_CO
Precip as % of Normal



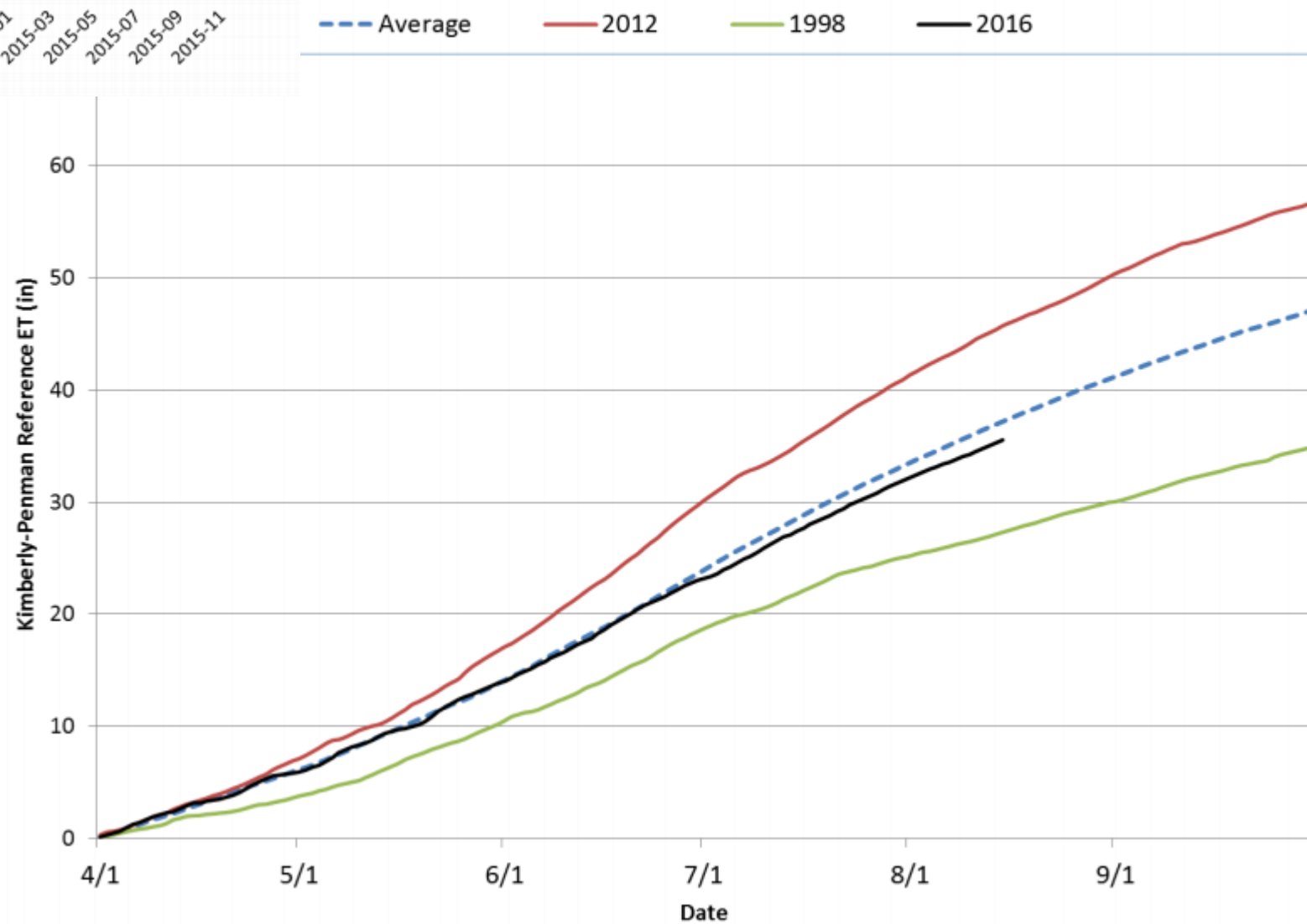
Colorado, Average Temperature, December



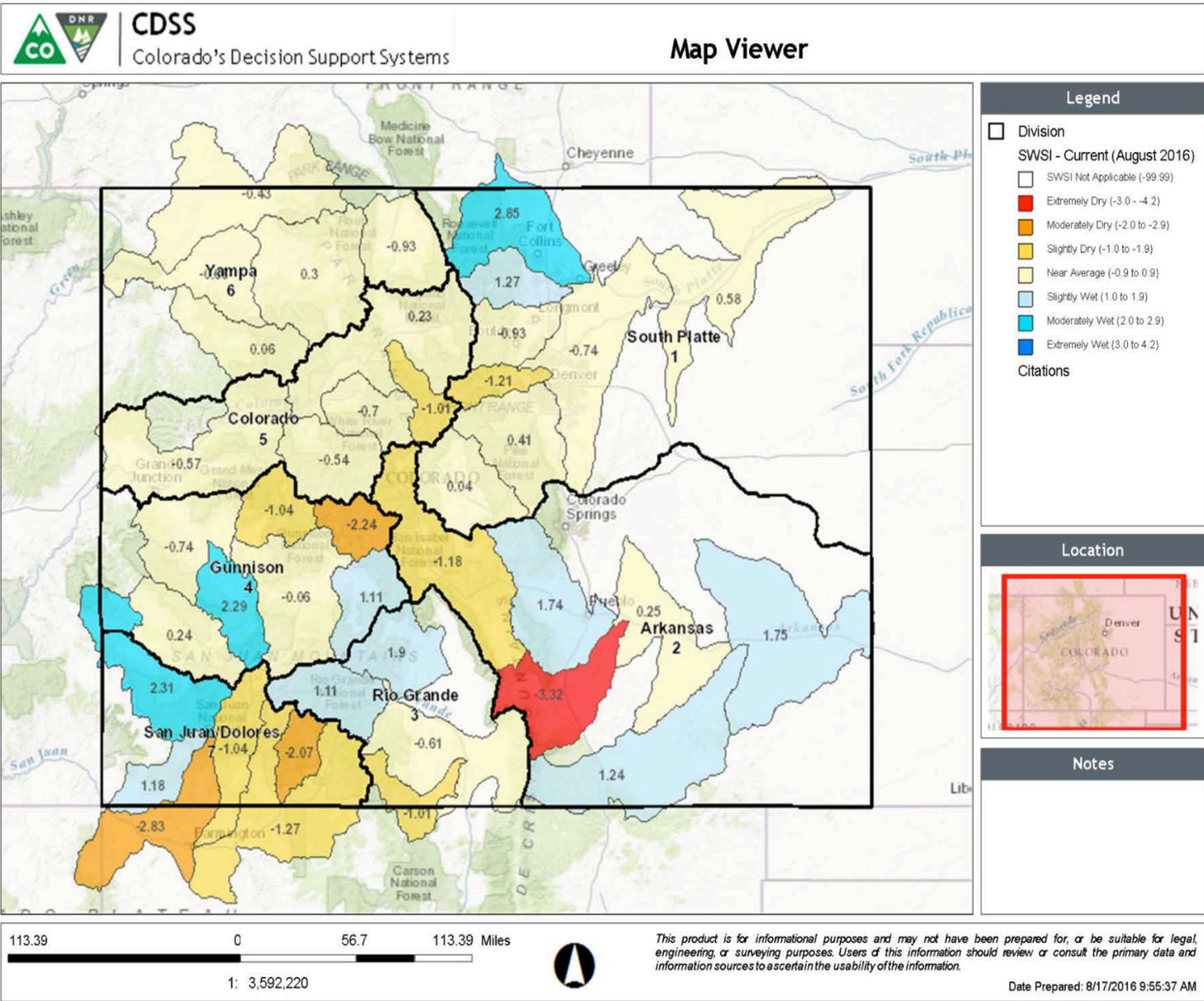
Pueblo Memorial AP Precipitation Accumulation



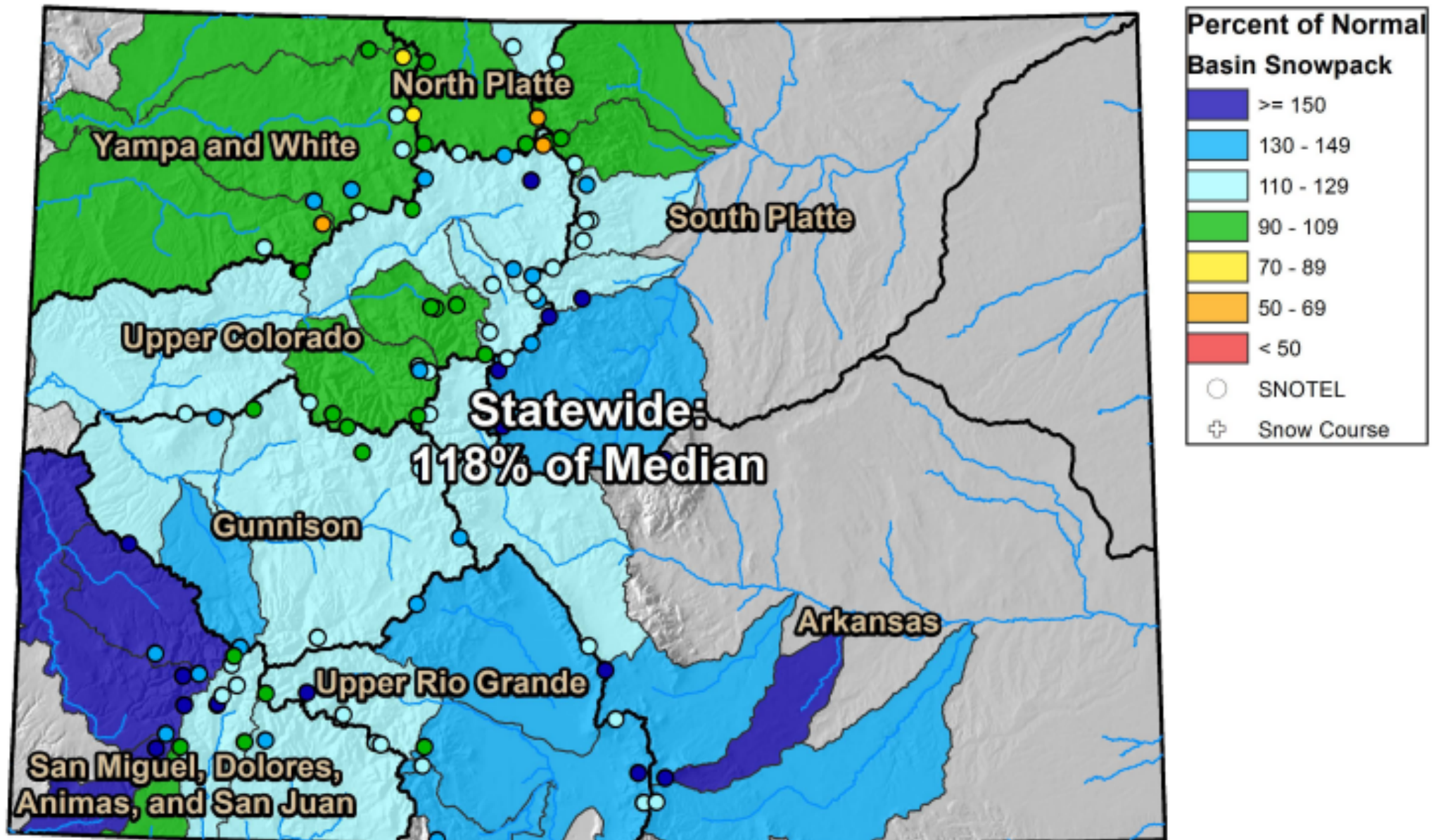
Monte Vista Kimberly-Penman Reference ET (1993 - 2016)



Surface Water Supply Index (SWSI)



Colorado Snowpack Summary January 1, 2016



0 25 50 100 150 200 Miles

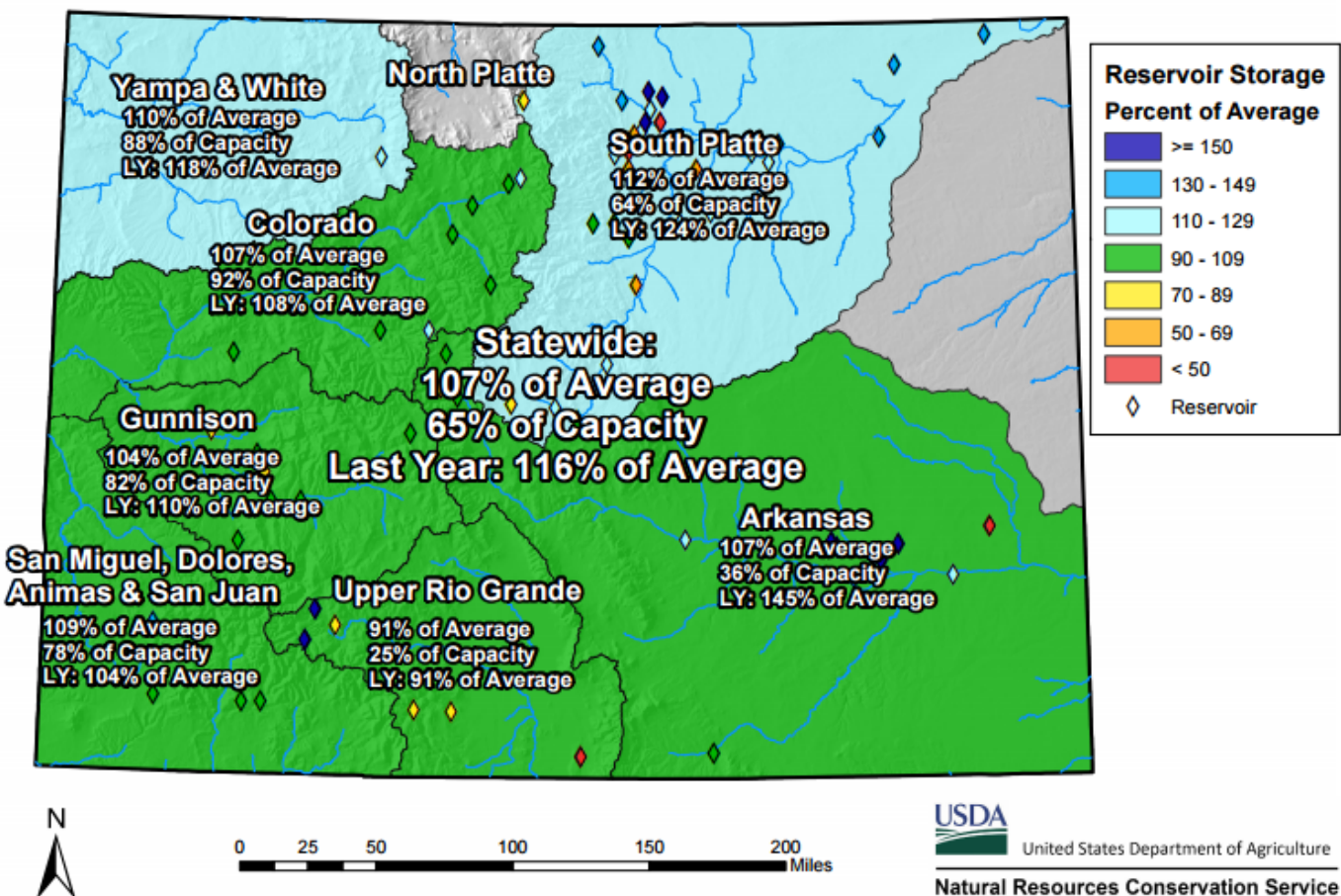


United States Department of Agriculture

Natural Resources Conservation Service

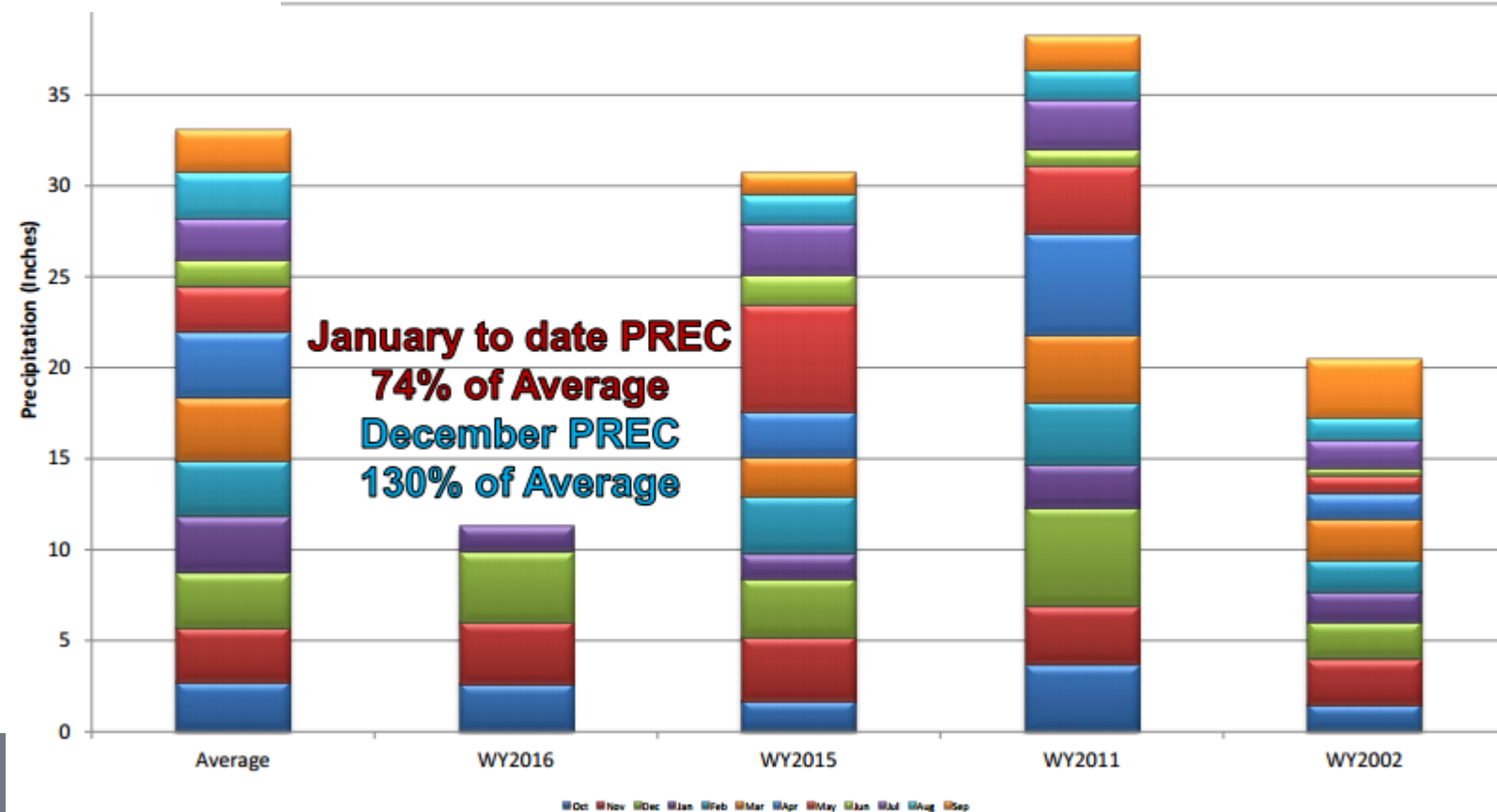
Colorado Monthly Reservoir Storage Summary

End of August 2016



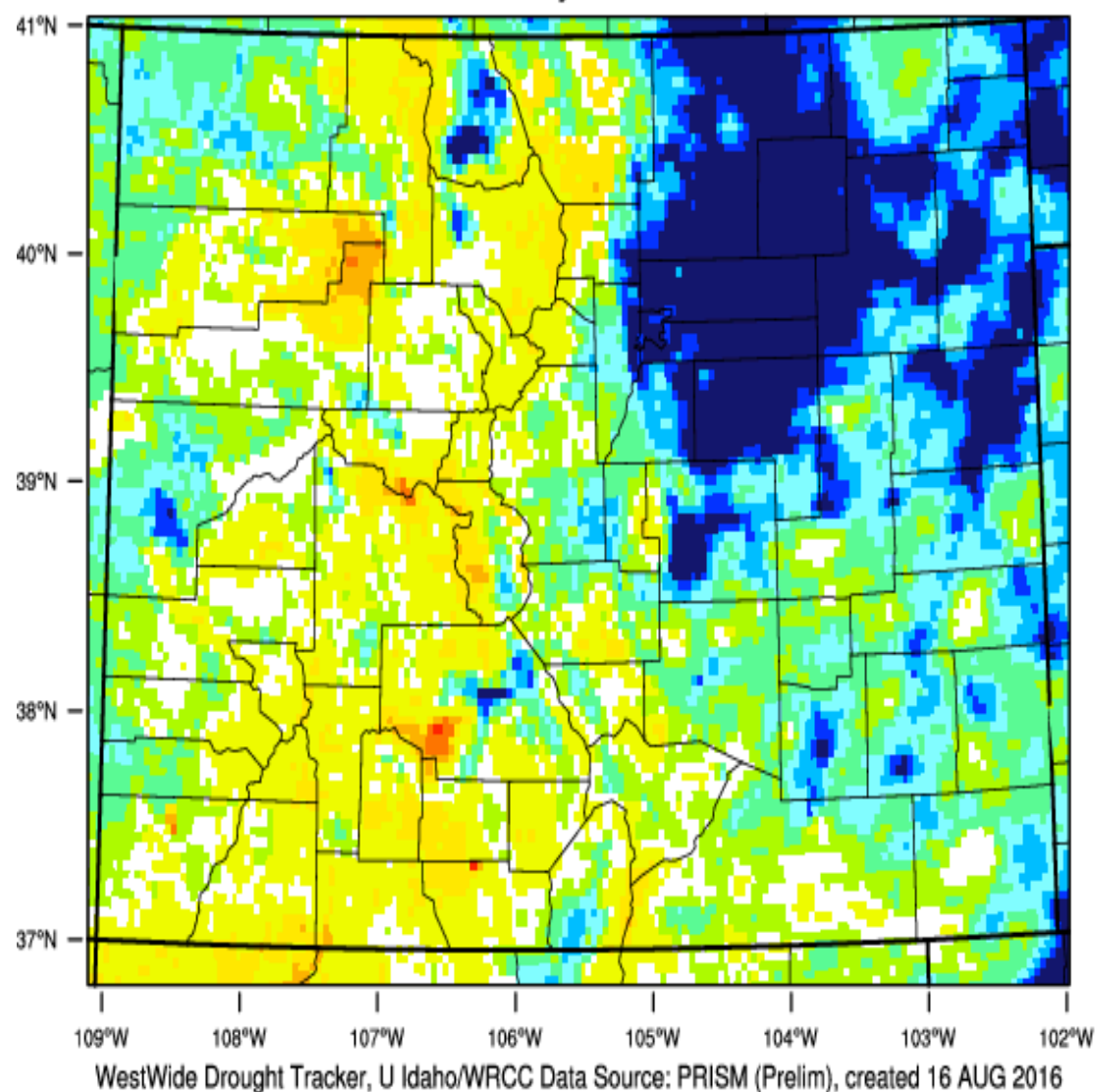
Colorado Statewide High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jan 19, 2016

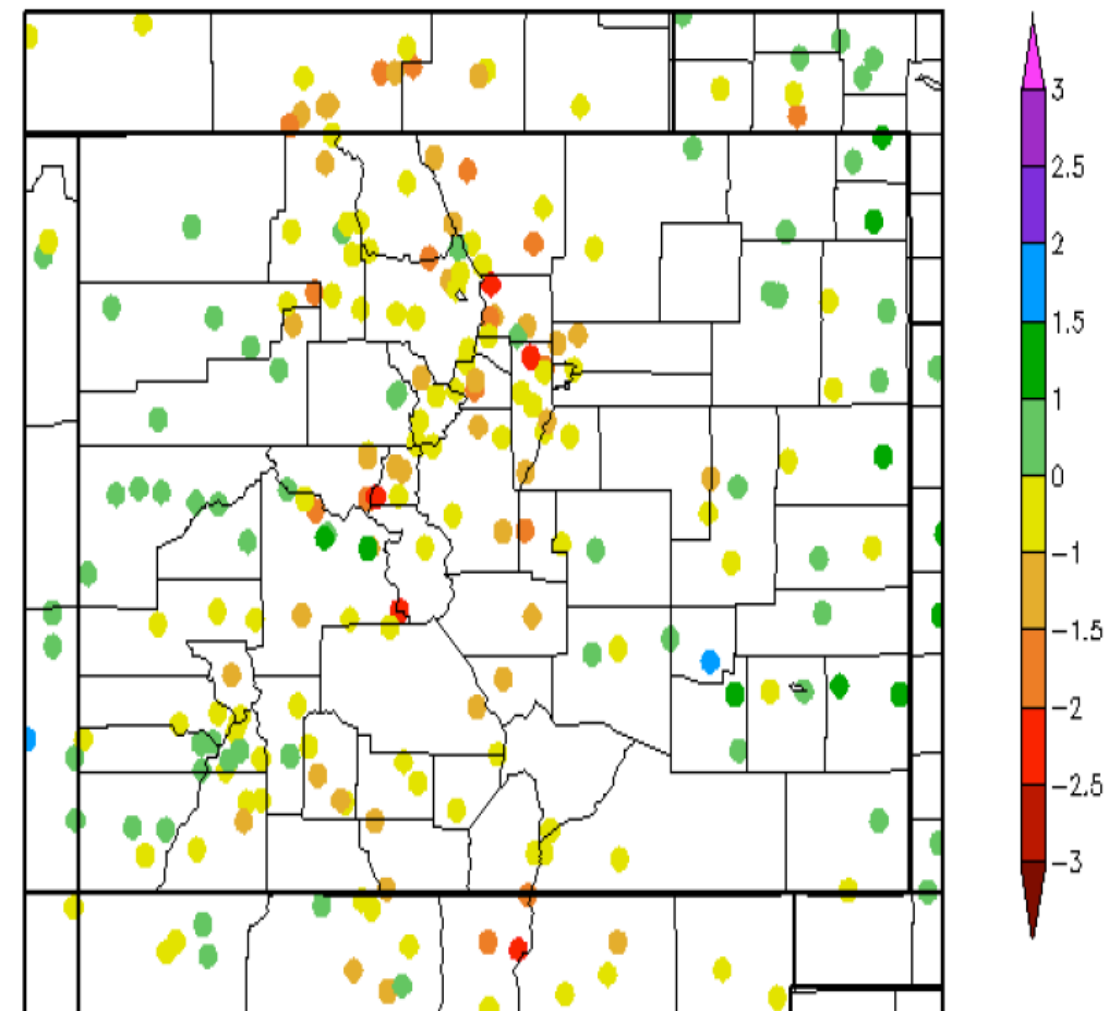


PDSI & SPI

Colorado - PDSI
July 2016

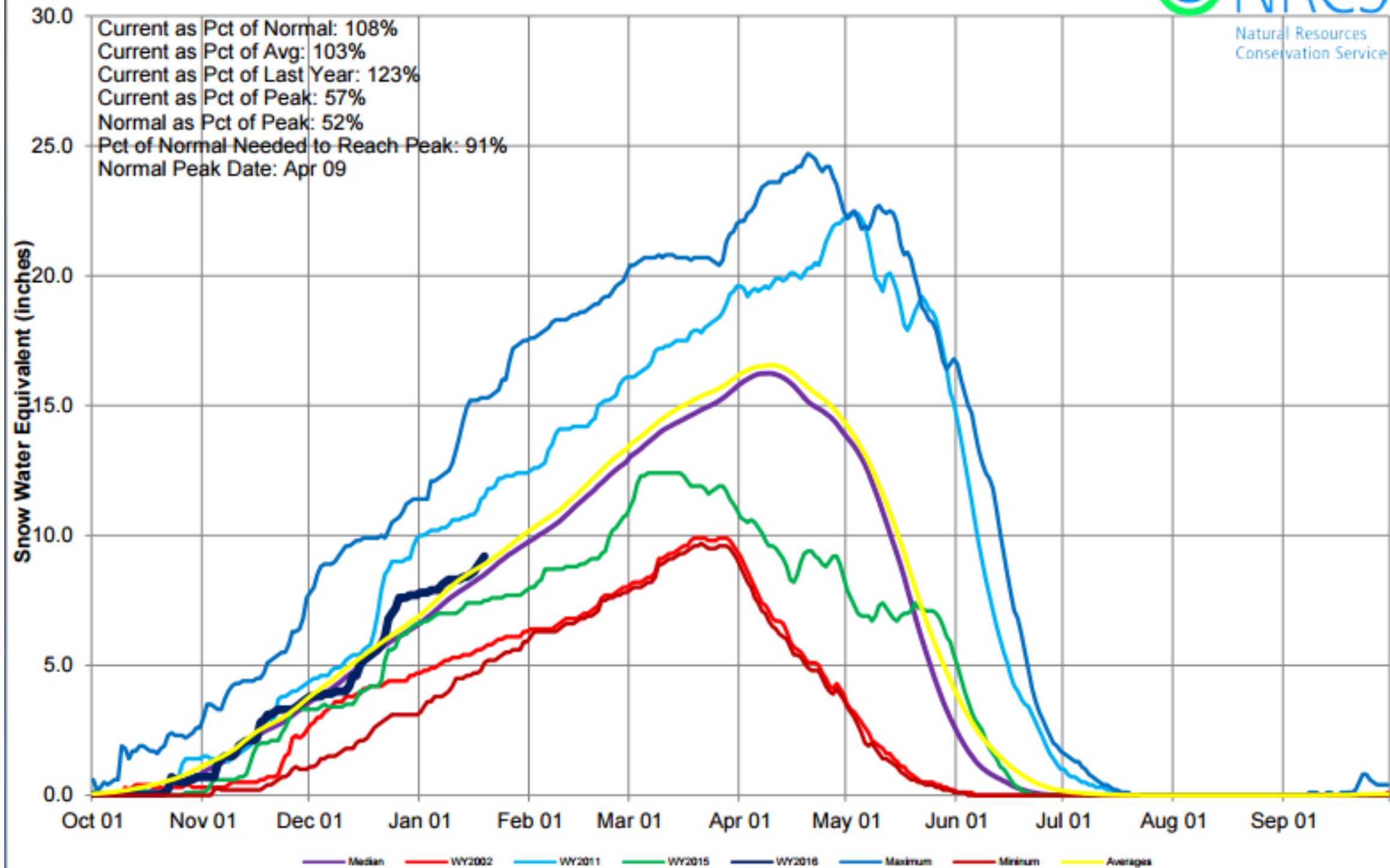


Monthly SPI
7/1/2016 - 7/31/2016

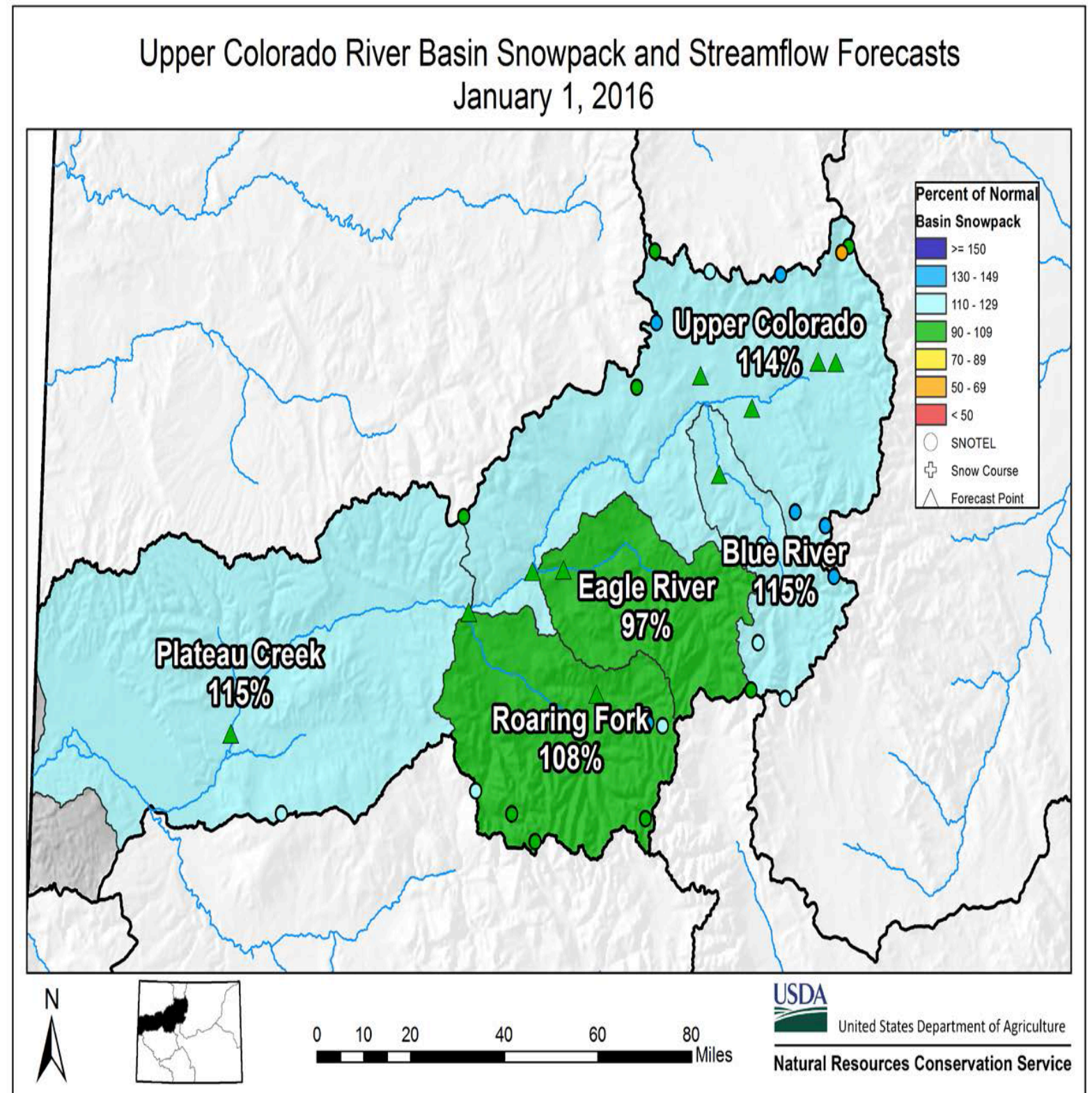


Colorado Statewide High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Jan 19, 2016



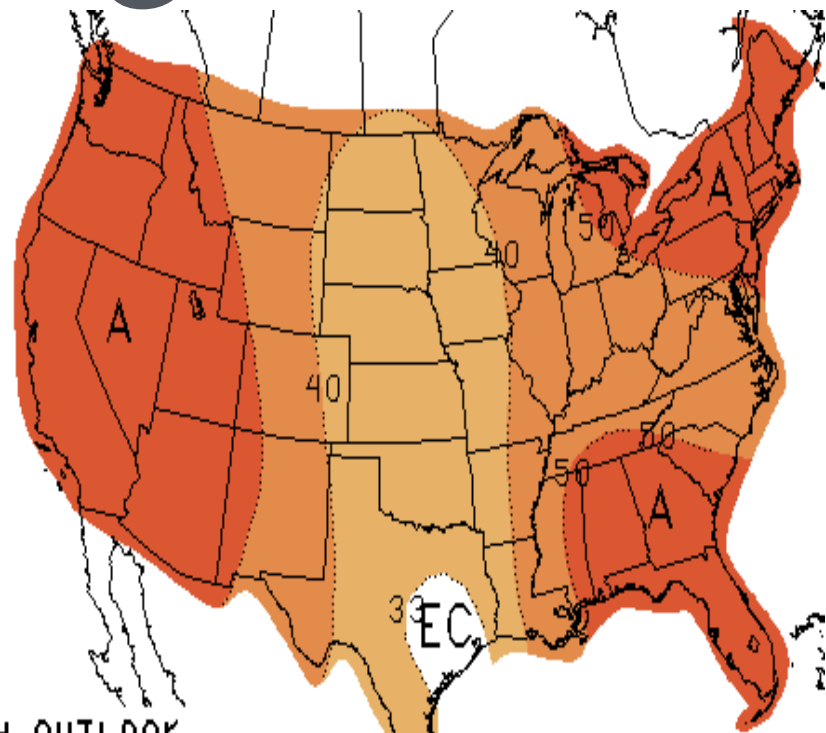
Forward Looking Indices - Short Term



Forward Looking Indices: Long Term Forecasting



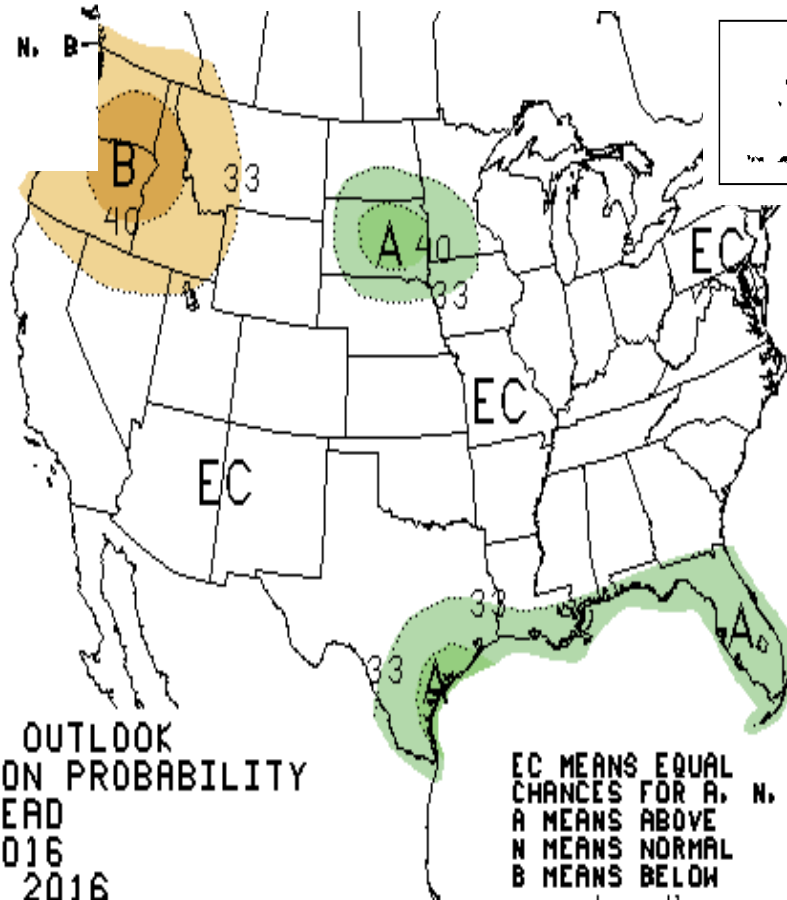
THREE-MONTH OUTLOOK
TEMPERATURE PROBABILITY
0.5 MONTH LEAD
VALID JAS 2016
MADE 16 JUN 2016



EC MEANS EQUAL
CHANCES FOR A, N, B
A MEANS ABOVE
N MEANS NORMAL
B MEANS BELOW

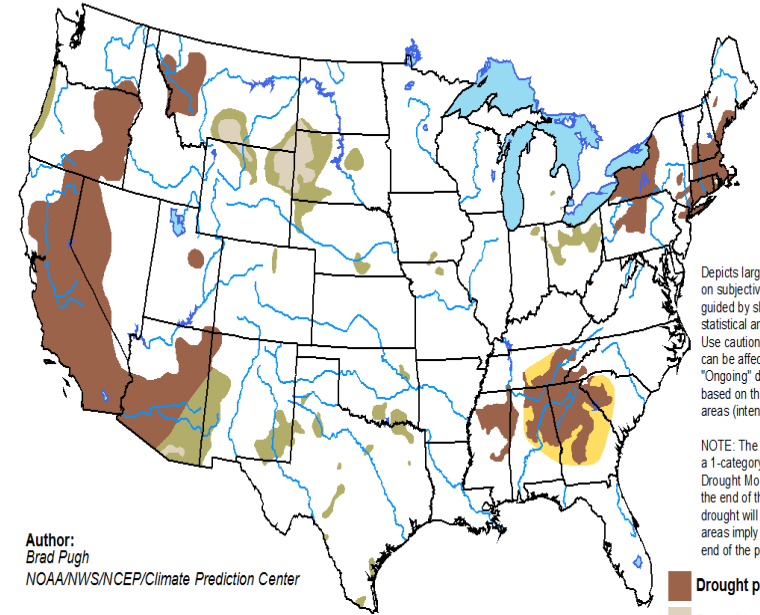


THREE-MONTH OUTLOOK
PRECIPITATION PROBABILITY
0.5 MONTH LEAD
VALID JAS 2016
MADE 16 JUN 2016



EC MEANS EQUAL
CHANCES FOR A, N, B
A MEANS ABOVE
N MEANS NORMAL
B MEANS BELOW

U.S. Seasonal Drought Outlook Valid for August 18 - November 30, 2016
Drought Tendency During the Valid Period
Released August 18, 2016

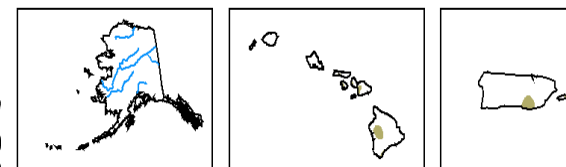


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

Author:
Brad Pugh
NOAA/NWS/NCEP/Climate Prediction Center

- Drought persists
- Drought remains but improves
- Drought removal likely
- Drought development likely



<http://go.usa.gov/3eZ73>



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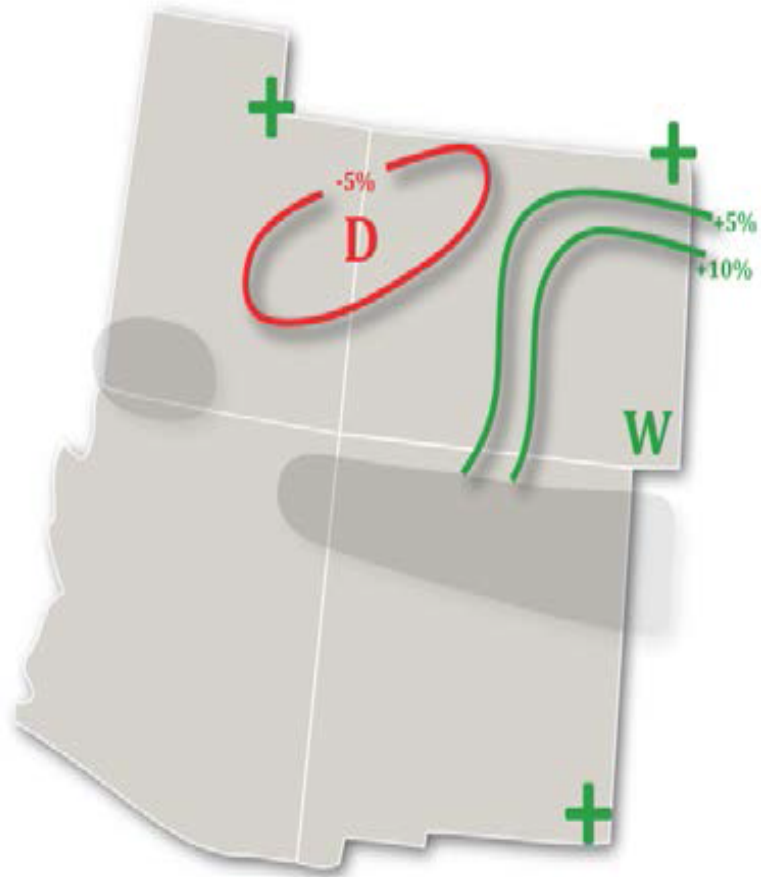


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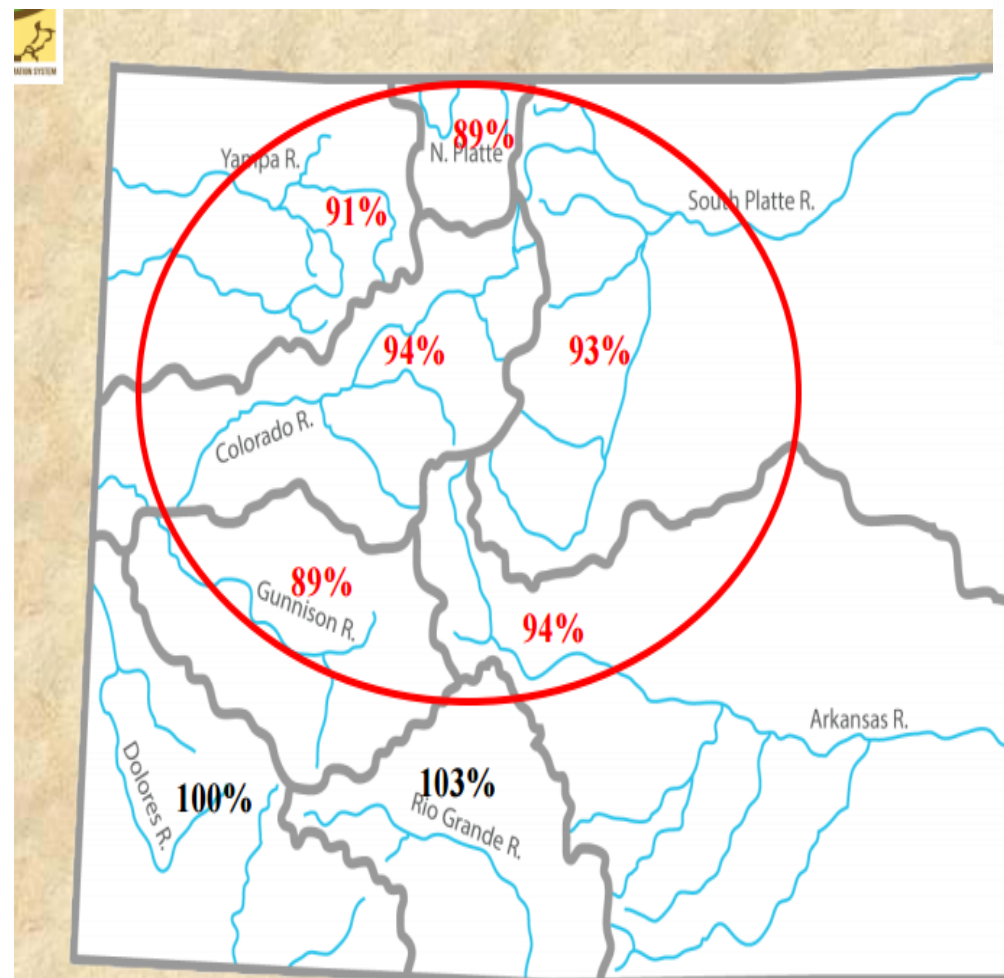
Experimental Long Term

Experimental PSD Precipitation Forecast Guidance

APR –JUN 2016 (Issued April 14, 2016) – *Skill Masked*

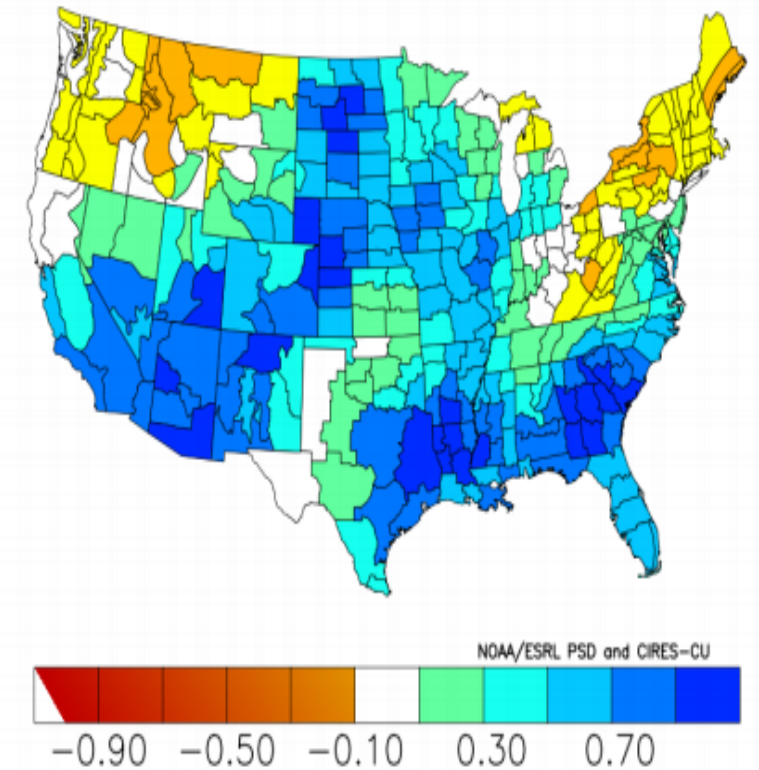


March 1 SWE forecast based on Fall El Nino Composites

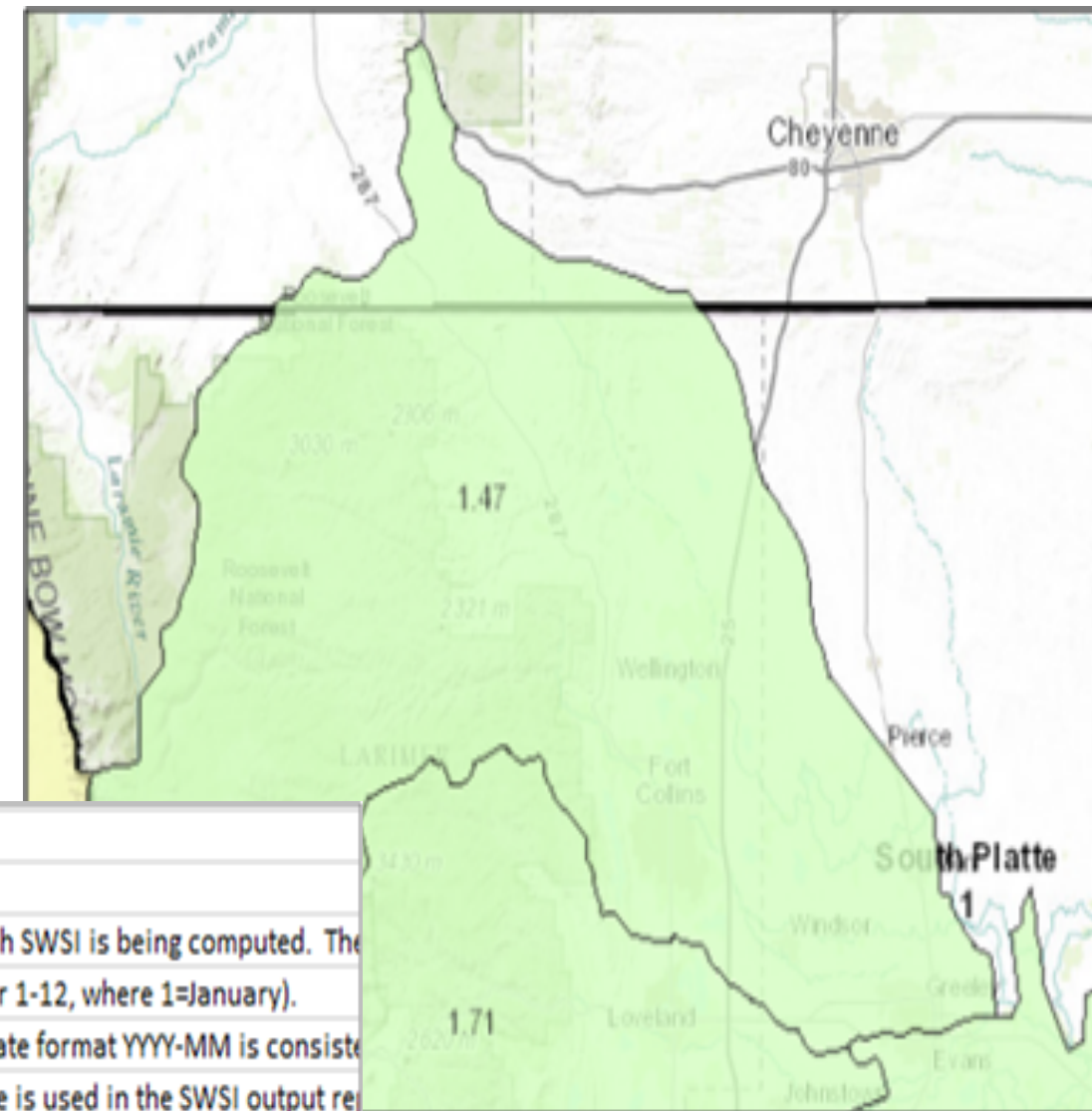
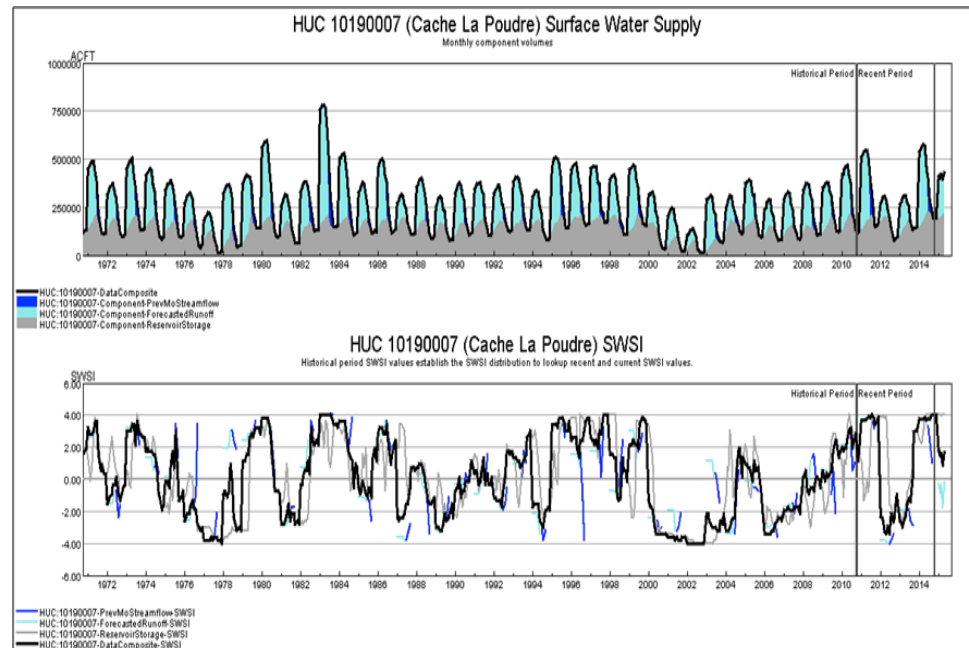


Median outcome for strong Los Niños since 1968
(after fall seasons: '72, '82, '87, '94, '97)

NOAA/NCDC Climate Division Composite Standardized Precipitation Anomalies
Oct to Dec 1957,1965,1972,1982,1994,1997,2009
Versus 1951–2010 Longterm Average



SWSI Automation Tool (2015)



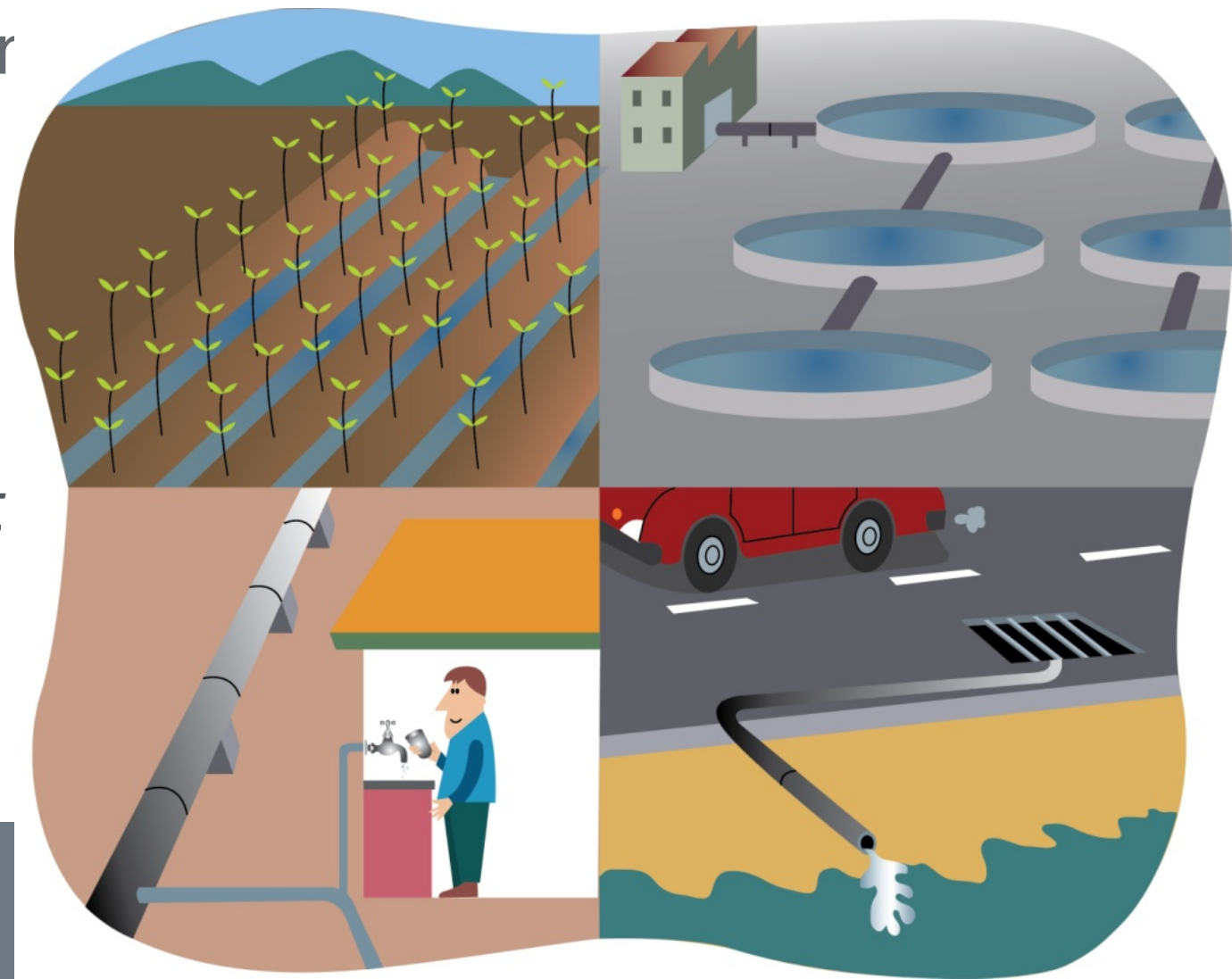
TS Tool Configuration	Property Name	Property Value	Property Value (Text)	Property Description
	CurrentMonthDate	2015-09	2015-09	Current month (as date) for which SWSI is being computed. The
	CurrentMonth	9	09	Current month (as month number 1-12, where 1=January).
	PreviousMonthDate	2015-08	2015-08	Previous month (as date). The date format YYYY-MM is consistent
	PreviousYearMonthDate	2014-09	2014-09	Previous year (as date). This date is used in the SWSI output re

Data Type	ID	Station Name	State	Datastore	Datastore ID	Source	Type
ForecastedNaturalFlow	06707500	SOUTH PLATTE RIVER AT SOUTH PLATTE	CO	NrcsAwdb	CO-06707500	USGS	SRVO
ForecastedNaturalFlow	06710385	BEAR CREEK ABV EVERGREEN	CO	NrcsAwdb	CO-06710385	USGS	SRVO
ForecastedNaturalFlow	06719505	CLEAR CREEK AT GOLDEN	CO	NrcsAwdb	CO-06719505	USGS	SRVO
ForecastedNaturalFlow	06724000	SAINT VRAIN CREEK AT LYONS	CO	NrcsAwdb	CO-06724000	USGS	SRVO
ForecastedNaturalFlow	06727000	BOULDER CREEK NEAR ORODELL	CO	NrcsAwdb	CO-06727000	USGS	SRVO
ForecastedNaturalFlow	06729500	SOUTH BOULDER CK NR ELDORADO SPRINGS, CO	CO	NrcsAwdb	CO-06729500	USGS	SRVO
ForecastedNaturalFlow	06738000	BIG THOMPSON R AT MOUTH, NR DRAKE, CO	CO	NrcsAwdb	CO-06738000	USGS	SRVO
ForecastedNaturalFlow	06752000	CACHE LA POUDRE R AT CANYON MOUTH	CO	NrcsAwdb	CO-06752000	USGS	SRVO

Reports from:

- ✓ Water providers
- ✓ Impact Task Forces
- ✓ The Gov's Water Policy Advisor
- ✓ Other Federal Partners

During times of drought it is not uncommon for media to attend





Questions?

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